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Notice of Allowability	Applicant(s)	LUTEN, HENRY A.	
	Application No.	10/771,514	
	Examiner	Marc S. Zimmer	Art Unit 1712

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 02/15/06 and the interview conducted March 27, 2006.
2. ☒ The allowed claim(s) is/are 1,3-12 and 14-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
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MARC S. ZIMMER
 PRIMARY EXAMINER

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bryan Davidson on March 27, 2006.

Please replace amended claims 1 and 10 with the following:

1. (Currently Amended) A substrate having a hydrophobic surface coating comprised of a silicon oxide anchor layer, a hydrophobic layer and a cross-linking layer between the anchor layer and the hydrophobic layer, wherein the hydrophobic layer consists essentially of the humidified simultaneous vapor deposited reaction product of methyltrichlorosilane (MTCS) and dimethyldichlorosilane (DMDCS), and wherein the cross-linking layer consists essentially of the humidified vapor-deposited reaction product of MTCS.

10. (Currently Amended) A process for forming a hydrophobic coating on a glass substrate comprising the steps of:

- (a) forming an anchor layer by contacting a surface of the substrate to be coated with a silicon tetrachloride vapor for a time sufficient to form a silicon oxide layer on the glass surface;
- (b) forming a cross-linking layer over the silicon oxide layer by the humidified vapor deposition of methyltrichlorosilane (MTCS);
- (c) forming a hydrophobic layer over the cross-linking layer by the simultaneous vapor deposition of MTCS and dimethyldichlorosilane

(DMDCS) for a time sufficient to form a cross-linked layer of polydimethylsiloxane (PDMSO).

Applicant had been advised that the the language of claim 10 was awkward in the Examiner's estimation because there appeared to be some suggestion that a cross-linking layer was being inserted between the anchor layer and the hydrophobic layer after the hydrophobic layer had already been formed. It was suggested that Applicant amend the claims to establish a proper chronological ordering of steps. Applicant agreed that this would be appropriate and also proposed that claim 1 be amended so that its language was consistent with that of claim 10. The above claims are exactly as presented to the Examiner in an unofficial correspondence.

Murphy et al. remains the most germane prior art known. Inasmuch as that document fails to even render obvious the intermediate layer now required of the invention, claims 1, 3-12, and 14-16 are deemed allowable. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

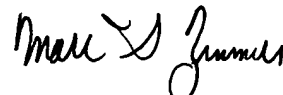
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc S. Zimmer whose telephone number is 571-272-1096. The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 30, 2006


MARC S. ZIMMER
PRIMARY EXAMINER